[54]	DATA CENTER FOR REMOTE POSTAGE
	METER RECHARGING SYSTEM HAVING
	PHYSICALLY SECURE ENCRYPTING
	APPARATUS AND EMPLOYING
	ENCRYPTED SEED NUMBER SIGNALS

	ENCRITT	ED SEED NUMBER SIGNALS
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[56] References Cited

U.S. PATENT DOCUMENTS

3,034,329	5/1962	Pitney et al 70/314	Pitney et al	14
3,664,231	5/1972	Hanson 70/292	Hanson	.92
3,800,284	3/1974	Zucker et al 340/825.31	Zucker et al	31
3,978,457	8/1976	Check, Jr. et al 364/200	Check, Jr. et al	00
4,097,923	6/1978	Eckert, Jr. et al 364/900	Eckert, Jr. et al	00
4,182,933	11/1980	Rosenblum 178/22.09 X	Rosenblum	Χ
4,253,158	2/1981	McFiggins 178/22.01 X	McFiggins	Х

FOREIGN PATENT DOCUMENTS

2636852 2/1978 Fed. Rep. of Germany .

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[57] ABSTRACT

A data center for remote postage meter recharging receives resetting signal information to reset a remotely located postage meter. The remotely located postage meter has signal information stored therein for use in recharging the meter with additional postage in conjunction with a signal information received from the data center and entered into the meter. The data center includes a sealed unit for processing received resetting signal information and encrypted signal information stored at the data center outside of the sealed unit. The stored encrypted signal information at the data center is equivalent to the signal information stored in the remotely located postage meter. The sealed unit includes a decrypter for decrypting the encrypted signal information so that it may be combined with the resetting signal information to generate a signal for use in resetting the remotely located postage meter. The sealed unit also includes an encrypter for encrypting information to provide updated encrypted signal information to be stored at the data center outside of the sealed unit for use when the remotely located postage meter is again to be reset with additional postage.

12 Claims, 4 Drawing Figures

